g(+)=1.25.B1(+)+1.75.B2(+)+2.25.B3(+)+2.75.B4(+)

$$C_1 = \frac{\langle f, \beta \rangle}{\langle \beta_1 \beta \rangle}$$
:  $\frac{\int_0^1 (2 + 1) dt}{\int_0^1 (1)^2 dt} = \frac{t^2 + 1}{1} \Big|_0^1 = 2$ 

$$C_{2} = \frac{\langle f, \omega \rangle}{\langle \omega, \omega \rangle} : \frac{\int_{0}^{\frac{1}{2}} (2t+1)dt + \int_{\frac{1}{2}}^{1} (2t+1)dt}{\int_{0}^{\frac{1}{2}} (1)^{2}dt + \int_{\frac{1}{2}}^{1} (-1)^{2}dt} = \frac{t^{2}+t \Big|_{0}^{\frac{1}{2}} - \Big(t^{2}+t \Big|_{\frac{1}{2}}^{\frac{1}{2}}\Big)}{t \Big|_{0}^{\frac{1}{2}} + t \Big|_{\frac{1}{2}}^{\frac{1}{2}}} = \frac{-0.5}{1}$$

$$\frac{C_{3}=\langle f, w_{0}^{1} \rangle}{\langle w_{0}^{1}, w_{0}^{1} \rangle}: \frac{\int_{0}^{k_{1}} (2t+1) dt}{\int_{0}^{k_{1}} (1)^{2} dt} + \int_{k_{1}}^{k_{2}} (2t+1) dt}{\int_{0}^{k_{1}} (1)^{2} dt} = \frac{t^{2}+t|_{0}^{k_{1}} - (t^{2}+t|_{k_{1}}^{k_{2}})}{t|_{0}^{k_{1}} + t|_{k_{1}}^{k_{2}}} = \frac{-k_{8}}{k_{2}} = -0.25$$

$$C_{4} = \frac{\langle f, \omega, ' \rangle}{\langle \omega, ', \omega, ' \rangle} : \frac{\int_{\frac{1}{2}}^{\frac{1}{2}} (2t+1) dt - \int_{\frac{1}{2}}^{\frac{1}{2}} (2t+1) dt}{\int_{\frac{1}{2}}^{\frac{1}{2}} (1)^{2} dt} = \frac{t^{2}+t \left| \frac{\frac{1}{2}}{\frac{1}{2}} - \left( t^{2}+t \left| \frac{1}{2} \right| \right)}{t \left| \frac{1}{2}} = \frac{-\frac{1}{2}}{\frac{1}{2}} = -0.25$$

g(+) = 2. B(+) -0.5. W(+) -0.25. W(+) -0.25. W(+)